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400. *By Prof. Asaph Hall.*—In a plane passing through the centre of the sun, 12 right lines are drawn from this centre making an angle of 30° with each other. On each of these lines, three homogeneous spherical bodies are placed at distances respectively of 10, 20 and 30 from the centre of the sun; the distance from the earth to the sun being the unit of distance.

The mass of each of these bodies being equal to that of the sun, what will be the velocity of a particle that starts from an infinite distance and moves in a right line towards the centre of the sun, and perpendicular to the plane of the bodies, when the particle is at a distance of 0.01 from the centre of the sun; the law of attraction being that of Newton?

QUERY BY GEORGE EASTWOOD.—In the solution of problem 389, show *why* "It is allowable and sufficient to write

$$\frac{dp}{dt} = p^2, \text{ and } \frac{dq}{dx} = q^2."$$

PUBLICATIONS RECEIVED.

Theory of the Moon's Motion. Deduced from the Law of Universal Gravitation. By JOHN N. STOCKWELL, PH. D. 378 pp. Large 8vo. Philadelphia: J. B. Lippincott & Co. 1881.

A Sequel to the first Six Books of the Elements of Euclid, Containing an easy Introduction to Modern Geometry, with numerous examples. By JOHN CASEY, LL. D., F. R. S. Dublin: Hodges, Figgis, & Co. London: Longmans, Green, & Co. 1882.

A Treatise on the Theory of Determinants. By THOMAS MUIR, M. A., F. R. S. 240 pp. 8vo. Macmillan & Co. London.

I.—The Law of Extensible Minors in Determinants: II.—On some Transformations connecting General Determinants with Continuants. By THOMAS MUIR, M. A. 14 pp. 4to.

Micrometrical Measurement of 455 Double Stars, under the Direction of ORMOND STONE, A. M., Astronomer. 69 pp. 8vo. Cincinnati. 1882.

A Value of the Solar Parallax from Meridian Observations of Mars. By PROF. J. R. EASTMAN. 43 pp. 4to. Washington. 1882.

The American Journal of Mathematics, Vol. IV, No. 2.

This number of the Journal is wholly devoted to the publication of the late PROFESSOR BENJ'N PEIRCE'S *Linear Associative Algebra*. With Notes and Addenda by C. S. PEIRCE, Son of the Author.

The Mathematical Visitor, Vol. II, No. 1. By ARTEMAS MARTIN, M. A., Erie, Pa.

ERRATA.

On page 49, line 15, for "laws", read locus.

" " 50, " 22, insert m_5 after 1046.02.

" " 85, " 1, insert " after "Lune".